



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Kazuhiko IWAI et al.

Group Art Unit: 1751

Application No.: 10/611,924

Examiner: M. Kopec

Filed: July 8, 2003

Docket No.: 116430

For: METHOD FOR PROPAGATING VIBRATION INTO A CONDUCTIVE FLUID AND
METHOD FOR SOLIDIFYING A MELTED METAL USING THE SAME
PROPAGATING METHOD OF VIBRATION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection, Notice of Allowance, or other action that closes prosecution (e.g., Quayle Action), but before payment of the Issue Fee. Attached is our Check No. 160508 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☒ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
37 CFR §1.97(e)(1).
- ☒ 2. Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

- ☒ 3. The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☒ 4. In accordance with 37 CFR §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached.
- ☒ 5. English language Abstracts of the non-English language references 1 and 3 are attached hereto.
- ☒ 6. Reference 4 is a U.S. patent family member of Reference 1. Reference 2 is a family member of cited reference U.S. Patent No. 6,579,490.

Respectfully submitted,

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Date: November 17, 2004

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<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>

Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116430		APPLICATION NO. 10/611,924	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Kazuhiko Iwai et al.			
				FILING DATE July 8, 2003		GROUP 1751	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	1	EP 1 264 651	12/11/02	EUROPE			
	2	EP 1 091 008	4/11/02	EUROPE			
	3	JP 2002-018559	5/3/02	JAPAN			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	4	U.S. Patent Publication No. 2002/0177530, published November 28, 2002					
	5	Current Advances in Materials and Processes, Vol. 13, No. 1, 2000, pp. 150-152.					
	6	Makarov, S., "Resonant Oscillation of a Liquid Metal Column Driven by Electromagnetic Lorentz Force Sources," J. AOUST. SOC. AM., Vol. 105, No. 4, April 1999, pp. 2216-2225.					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: November 17, 2004